FORTINET

FortiGate®-3600C

World's Most Advanced Next Generation Firewall

The FortiGate-3600C next generation firewall, with exceptional performance, deployment flexibility and security features, is designed to protect the most demanding network environments. Purpose-built by Fortinet, the FortiGate-3600C delivers superior performance through a combination of custom hardware, including FortiASIC™ processors, high port density, and consolidated security features from the FortiOS™ operating system.

Whether protecting your data center and network perimeter or deployed as part of a managed security service, the 30 high speed ports and 60 Gbps of firewall throughput make the FortiGate-3600C next generation firewall ideal for securing high bandwidth networks.

Security Beyond Next Generation Firewall

The FortiGate-3600C next generation firewall allows you to deploy the right blend of essential hardware-accelerated security technologies now and in the future to meet your evolving network requirements. These technologies include firewall, VPN, intrusion prevention and application control, all managed from a 'single pane of glass' management console.

Unlike other next generation firewalls, the FortiGate-3600C also includes additional security technologies such as antimalware, web content filtering and WAN optimization, allowing you to consolidate stand-alone devices. In addition, the FortiGate-3600C can be deployed as an enterprise class wireless controller and endpoint security manager.

Key Features & Benefits

Consolidated Security Architecture	FortiGate consolidated security offers better protection and lower cost of ownership than multiple point security products
High Port Density	12 x 10-GbE and 18 x GbE ports facilitate flexible deployment of network segments and promotes network expansion and high availability configurations
Single Pane of Glass Management	Reduces complexity and decreases costs as all security functions can be managed through one console

Performance and Reliability for High Bandwidth Networks

- 10-GbE next generation firewall with best-in-class price-performance ratio
- High port density delivers maximum flexibility and scalability
- Application control coupled with identity-based policy enforcement provides complete content protection
- Strong authentication options for policy compliance
- IPv6 certified platform

ICSA labs CERTIFIED ANTI-VIRUS
ICSA labs CERTIFIED NETWORK IPS
ICSA labs CERTIFIED SSL VPN
ICSA labs CERTIFIED FIREWALL - CORPORATE
ICSA labs CERTIFIED IPSEC - BASIC

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support.fortinet.com

FortiGuard
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www.fortiguard.com

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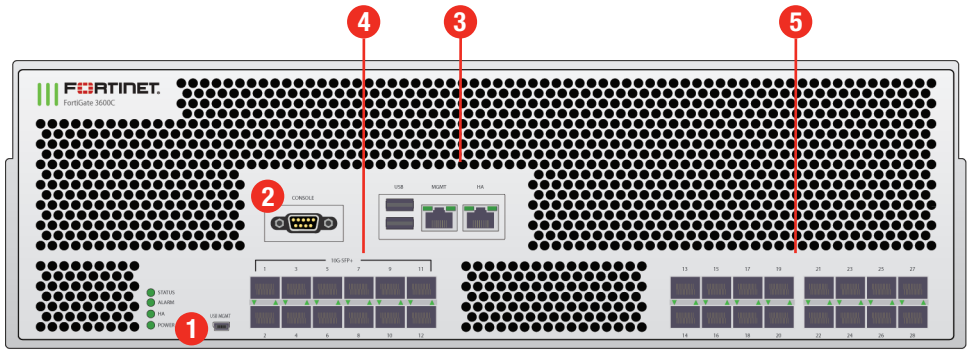
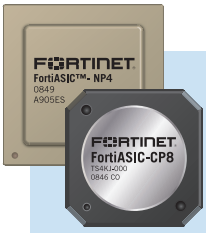
HARDWARE



Interfaces

1. USB Management Port for FortiExplorer
2. Console Port
3. 2 x GbE Copper (Management/HA) Ports
4. 12 x 10-GbE SFP+ Slots (2 SFP+ SR Transceivers Included)
5. 16 x GbE SFP Slots



Powered by FortiASICs

- Custom FortiASIC™ processors deliver the power you need to detect malicious content at multi-Gigabit speeds
- Other security technologies cannot protect against today's wide range of content- and connection-based threats because they rely on general-purpose CPUs, causing a dangerous performance gap
- FortiASIC processors provide the performance needed to block emerging threats, meet rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck

Content Processor

The FortiASIC CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:

- Signature-based content inspection acceleration
- Encryption and decryption offloading

Network Processor

The FortiASIC NP4 network processor works inline with firewall and VPN functions delivering:

- Wire-speed firewall performance for any size packets
- VPN acceleration
- Anomaly-based intrusion prevention, checksum offload and packet defragmentation
- Traffic shaping and priority queuing

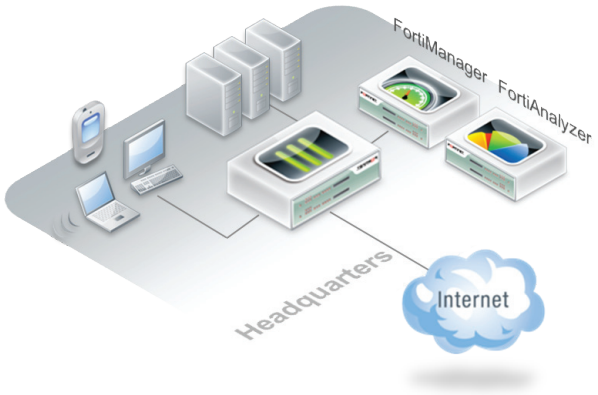
10G Connectivity for Core Infrastructure

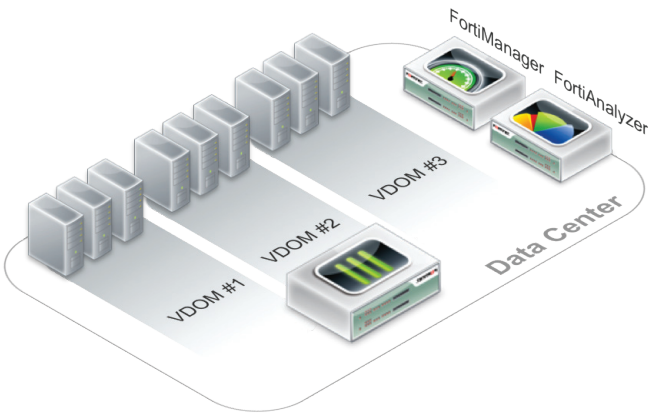
High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate-3600C provides one of the highest 10G port densities in the market, simplifying network designs without relying on additional devices to bridge desired connectivity.

DEPLOYMENT

Next-Generation Perimeter Security

Firewalls alone aren't enough to block today's blended threats and attacks. Data centers require multi-layered security technologies that examine entire packet flows, from content inspection through re-assembly, to stop threats at the perimeter. The FortiGate-3600C offers critical perimeter security protection without compromising performance and scalability.



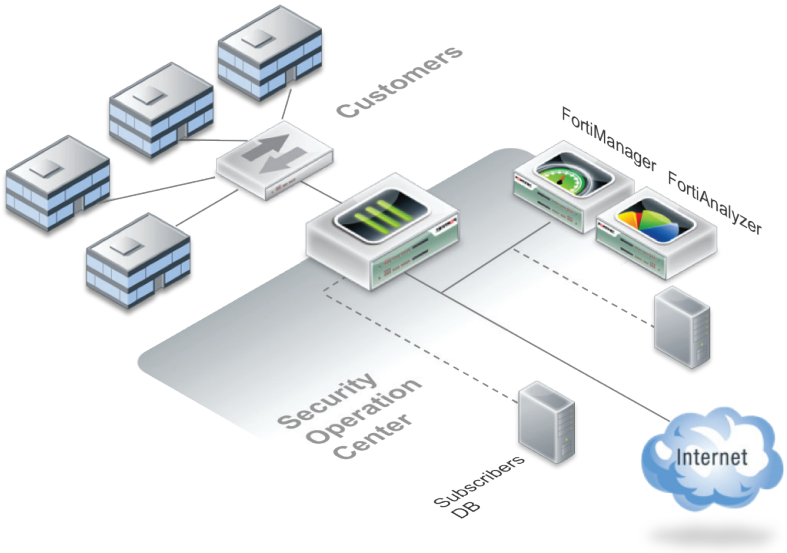


Data Center Core Security

Today's high-speed data centers require not only perimeter security but also network protection between various network segments at the core. The FortiGate-3600C meets the requirement as a security gateway with superior next generation firewall performance and features. High density 10G interfaces allow connectivity between the segments without the need of bridging devices.

MSSP Solution

The FortiGate-3600C delivers comprehensive security for Managed Security Service Providers (MSSPs). The full suite of Fortinet integrated management applications — including granular reporting features — offer unprecedented visibility into the security posture of customers while identifying their highest risks.



SOFTWARE FEATURES

FortiOS Dashboard - Single Pane of Glass Management

Unique Visibility and Control

FortiOS allows greater traffic visibility and more consistent, granular control over users, devices, applications and sensitive data. Dashboard widgets allow you to quickly view and understand real-time network activities and threat situations.

Ease of Use

FortiOS lowers operational costs and reduces IT staff workload. Single pane of glass management and centralized analysis ensure consistent policy creation and enforcement while minimizing deployment and configuration challenges.

Comprehensive Systems Integration

Integration with external systems are possible with wide range of interfacing protocols support and certified solution partners. You can rely on facilities such as SNMP, sFlow and syslog for monitoring purposes. Integration with provisioning systems and custom portals is possible with Web Service APIs via FortiManager. Scripting using various scripting languages is supported by manipulating CLI commands.

Proven with Industry Validation

FortiGate holds more industry certifications than competitive products, assuring feature quality and providing you best-of-breed protection.

Robust Virtual Systems

FortiOS Virtual Domains (VDOMs) is proven method of dividing a FortiGate unit/cluster into two or more virtual units that function as independent units. It has the industry's most comprehensive virtualization capabilities to meet today's complex MSSP deployments.

Identity Centric Enforcement

FortiOS supports both local and remote authentication services such as LDAP, Radius and TACACS+ to identify users and apply appropriate access policies and security profiles accordingly. It can simplify identity based implementations and provide a seamless user authorization experience with single sign-on capabilities. FortiOS has strong PKI and certificate-based authentication services while also integrating an internal two factor authentication server for additional security.

SOFTWARE FEATURES

Extensive Network Support

FortiOS meets numerous network design requirements. A wealth of routing, multicasting and network resiliency protocols are supported for interoperating with other networking devices.

Superior IPS capabilities

Over 4000 IPS signatures enables you to stop attacks that evade more conventional firewalls. Behavior-based heuristics recognize zero day threats for which no signature has been created.

Application Control

Advanced application control lets you define and enforce policies for thousands of applications running across networks regardless of port or the protocol used for communication.

Powerful Policy Management

Two types of policy management views - global and section view - are available to suit your preferences. Policy objects can be easily edited from the policy table. Available management features include policy object search, tagging, sorting and filtering.

With FortiManager integration, you have the ability to set up sophisticated policy implementation and provisioning workflows to meet compliance or operational requirements. FortiAnalyzer enables complete and accurate configuration audit trails to reside externally for secured storage.

Flexible Role-based Administration

Access profiles can be defined to provide granular access to VDOMs and system functionalities. This is valuable in facilitating compliant enterprise-class security operation workflows.

Beyond Next Generation Firewall Capabilities

FortiOS supports various value-adding components to the network that is unique in the market. This includes in-box token server, wireless controller and vulnerability scanner. These features simplify network design and deployment while also providing more secure implementations without incurring additional cost.

Broad IPv6 Support

Maintaining security for both IPv4 and IPv6 traffic will be crucial to the success of mixed networks. Malware and network threats are independent of IPv4 or IPv6. FortiOS is able to use IPv6 security policies to provide access control and UTM protection for IPv6 traffic. FortiOS has been successfully evaluated as compliant with core protocol and interoperability tests defined by IPv6 Ready Logo Phase 2.

World-Class Technical Support

Fortinet FortiCare support offerings provide comprehensive global support for all Fortinet products and services. You can rest assured your Fortinet security products are performing optimally and protecting your users, applications, and data around the clock.

More Features with FortiCarrier Software License

- SIP/IMS signaling firewall protects internal infrastructure and service against malicious messages and overload while providing NAT services and redundancy, providing VoIP edge scalability and a platform for managed security services
- MMS security - content scanning and protection (keyword blocking, antivirus, file-type blocking, antispam detection) with per-user services provide enhanced end-user security for increased uptime and higher customer satisfaction
- GTP firewall delivers protocol anomaly detection and prevention with multiple filter options for end-to-end security

**For complete,up-to-date & detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet*

SPECIFICATIONS

Interfaces & Modules	
Hardware Accelerated 10-GbE/GbE SFP+ Slots	12
Hardware Accelerated GbE SFP Slots	16
GbE Copper Ports	2
Local Storage	128 GB
USB Interface for FortiExplorer	1
Console Port (DB9)	1

System Performance & Capacity	
Firewall Throughput (1518 / 512 / 64 byte, UDP)	60 / 60 / 60 Gbps
Firewall Latency (64 byte, UDP)	4 us
Firewall Throughput (Packet per Second)	90 Mpps
Concurrent Sessions (TCP)	28 Million
New Sessions/Sec (TCP)	235,000
Firewall Policies	100,000
IPSec VPN Throughput (512 byte)	25 Gbps
Gateway-to-Gateway IPSec VPN Tunnels	10,000
Client-to-Gateway IPSec VPN Tunnels	64,000
SSL-VPN Throughput	5.3 Gbps
Concurrent SSL-VPN Users (recommended Max)	30,000
IPS Throughput	14 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	5.8 / 18 Gbps
Virtual Domains (Default / Max)	10 / 500
Max Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Max Number of FortiTokens	5,000
High Availability Configurations	Active-Active, Active-Passive, Clustering
Unlimited User Licenses	Yes

Dimensions & Power	
Height x Width x Length	5.24 x 17.50 x 21.65 (133 x 445 x 550 mm)
Weight	48.70 lb (22.08 kg)
Form Factor	3 RU, Ears + Rails
AC Power Supply	100 - 240 VAC, 50-60 Hz, 110V/6A, 220V/3A
Power Consumption (Avg / Max)	512 / 615 W
Heat Dissipation	2,098 BTU/h
Operating Altitude	Up to 7,400 ft (2,250 m)
Redundant Power Supplies	Yes, Hot Swappable

Operating Environment & Certifications	
Operating Temperature	32 – 104 deg F (0 – 40 deg C)
Storage Temperature	-31 – 158 deg F (-35 – 70 deg C)
Humidity	20 to 90% non-condensing
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files. IPSec VPN performance is based on 512 byte UDP packets using AES-256+SHA1.

ORDER INFORMATION

Appliance		
FortiGate-3600C	FG-3600C	12 x 10GE SFP+ slots, 16 x SFP slots, 2 x GE RJ45 ports, 128GB SSD onboard storage, and dual AC power supplies

Accessories		
SFP LX Transceiver Module	FG-TRAN-LX	Transceiver LX module for all FortiGate models with SFP interfaces with LC connector
SFP Gig Copper Transceiver Module	FG-TRAN-GC	Transceiver Base-T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation with RJ45 connector
SFP SX Transceiver Module	FG-TRAN-SX	Transceiver SX module for all FortiGate models with SFP interfaces
SFP+ Transceiver Module	FG-TRAN-SFP+SR	10-Gig transceiver, short range SFP+ module for all FortiGate models with SFP+ interfaces with LC connector
SFP+ Long Range Transceiver Module	FG-TRAN-SFP+LR	10-Gig transceiver, SFP+, Long Range
Power Supply	SP-FG3600C-PS	FG3600C, FG3240C Power Supply

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